## Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

- 1. (Previously Presented) A method for purifying a mixture comprising single-wall carbon nanotubes and amorphous carbon contaminate, said method comprising the steps of:
  - (a) heating said mixture under oxidizing conditions sufficient to remove the said amorphous carbon; and
  - (b) recovering a product comprising at least about 80% by weight of single-wall carbon nanotubes, wherein the product is washed with a solution comprising a surfactant.
- 2. (Currently Amended) The method of claim 4 166 wherein said oxidizing conditions comprise an aqueous solution of an inorganic oxidant.
- 3. (Original) The method of claim 2 wherein said inorganic oxidant is selected from the group consisting of nitric acid, a mixture of sulfuric acid and hydrogen peroxide, potassium permanganate and mixtures thereof.
- 4. (Original) The method of claim 2 wherein said aqueous solution is heated to reflux.
- 5. (Original) The method of claim 2 additionally comprising the step of subjecting the oxidized product of step (b) to a saponification treatment.
- 6. (Original) The method of claim 5 wherein said saponification treatment comprises contacting said product with a basic solution.
- 7. (Original) The method of a claim 6 wherein said basic solution comprises sodium hydroxide.

8. (Original) The method of claim 6 additionally comprising the step of neutralizing the saponified product with an acid.

- 9. (Original) The method of claim 8 wherein said acid is hydrochloric acid.
- 10. (Original) The method of claim 8 additionally comprising the step of recovering a solid product from the saponified, neutralized product.
- 11. (Original) The method of claim 10 wherein said product is recovered by a method selected from the group consisting of filtration, settling by gravity, chemical flocculators, and liquid cycloning.
- 12. (Original) The method of claim 10 wherein said solid product is a paper-like two-dimensional product.
- 13. (Original) The method of claim 12 additionally comprising the step of drying the product.
- 14. (Original) The method of claim 13 wherein said product is dried at about 850°C in a hydrogen gas atmosphere.
- 15. (Currently Amended) The method of claim + 166 wherein said product comprises at least about 90% by weight of single-wall carbon nanotubes.
- 16. (Currently Amended) The method of claim + 166 wherein said product comprises at least about 95% by weight of single-wall carbon nanotubes.
- 17. (Currently Amended) The method of claim 1 166 wherein said product comprises at least about 99% by weight of single-wall carbon nanotubes.

## 18-162. (Cancelled)

163. (Previously Presented) The method of claim 1 wherein the surfactant is sodium dodecyl sulfate.

164. (Previously Presented) The method of claim 1 wherein the surfactant is a non-ionic surfactant.

- 165. (Previously Presented) A method for purifying a mixture comprising single-wall carbon nanotubes and amorphous carbon contaminate, said method comprising the steps of:
  - (a) heating said mixture under oxidizing conditions; and
  - (b) recovering a product comprising at least about 80% by weight of single-wall carbon nanotubes, wherein the product comprises fullerene torroids.
- 166. (New) A method for purifying a mixture comprising single-wall carbon nanotubes and amorphous carbon contaminate, said method comprising the steps of:
  - (a) heating said mixture under oxidizing conditions sufficient to remove the said amorphous carbon; and
  - (b) recovering a product comprising at least about 80% by weight of single-wall carbon nanotubes.

## III. CONCLUSION

As a result of the foregoing, it is asserted by Applicant that the Claims in the Application are now in a condition for allowance, and respectfully request allowance of such Claims.

Applicant respectfully requests that the Examiner call Applicant's attorney at the below listed number if the Examiner believes that such a discussion would be helpful in resolving any remaining problems.

Respectfully submitted,

WINSTEAD SECHREST & MINICK P.C.

Attorneys for Applicant

Ross Spencer Garsson

Reg. No. 38,150

P.O. Box 50784 Dallas, Texas 75201 (512) 370-2870

AUSTIN\_1\251113\1 11321-P012USD1 05/25/2004